**Class Activities**

Chapter Eight: Estimation

Class Activity #1 (Group)

Have each group design a study where they survey a random selection of students at your college or university. Ask students to use the information presented in Chapter Seven to assist with developing the sampling frame and drawing the sample. Students can gather information on a topic of interest to the group, but some questions must capture interval-ratio level information (e.g., years of education, years expected to degree, etc). After the data collection phase, enter the results into a spreadsheet (Excel, SPSS, etc) to organize the data.

Class Activity #2 (Group or individual)

Have students following the steps outlined in Chapter Eight to calculate point and interval estimates for the interval-ratio level variables in their dataset from Class Activity #1. Ask students to find similar estimates for other colleges or universities. How does the student body at your college or university compare to other colleges or universities?

Class Activity #3 (Group or individual)

Have students use a random number table or random number generator (many of which are available online) to select five sub-samples of different sizes from the dataset from Class Activity #1. With each sub-sample, repeat the steps in Class Activity #2. Compare the results. Is there a pattern of a loss of precision as sample size decreases?

Class Activity #4 (Group)

Provide students with two examples of output from SPSS that show confidence level data. Have the students get into groups of two or more and interpret the results that follow the model presented in the text.